

AM-FM STEREO RECEIVER

KR-A4070/A5070 [E, T, G Type]

SERVICE MANUAL

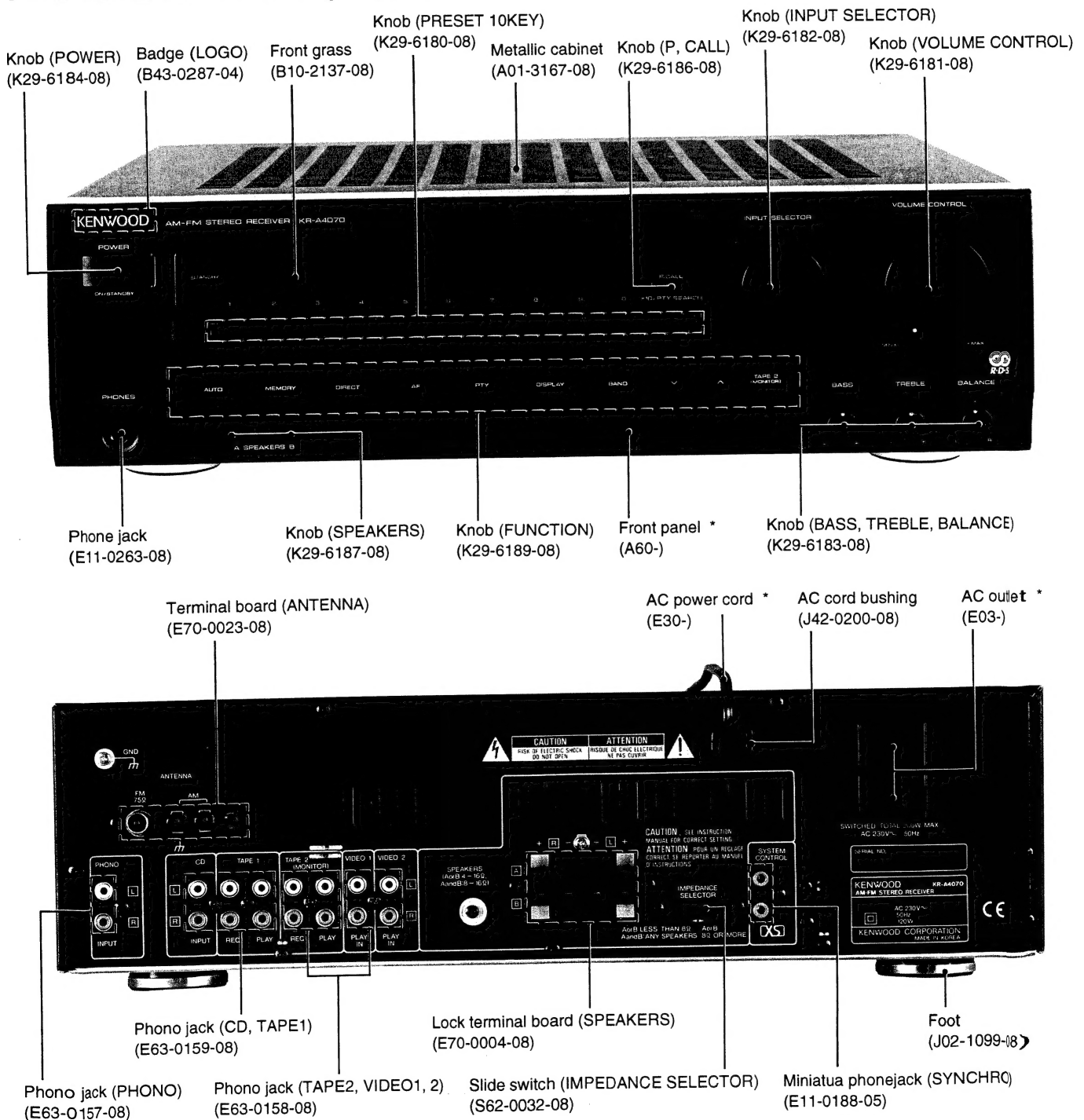
KENWOOD



KENW-04416

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B51-5057-00(S) 1812

PHOTO is KR-A4070 (T type)



* Refer to parts list on page 26.

4416


KR-A4070/A5070 [E, T, G]

CONTENTS/ACCESSORIES

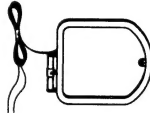
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ACCESSORIES


T type antenna(1)
(T90-0176-05)



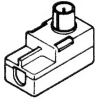
AM loop antenna.....(1)
(T90-0804-08)



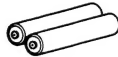
Loop antenna holder(1)
(J19-2815-04)



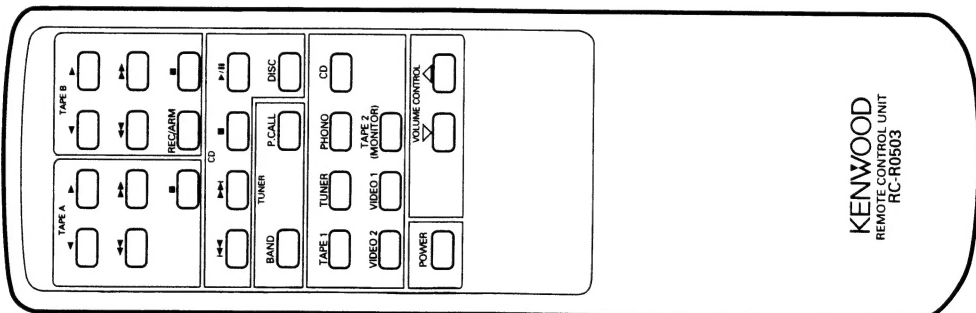
Antenna adaptor (1)
(T90-0805-08)



Batteries (R6/A4).....(2)



Remote control unit (RC-R0503).....(1)
(A70-0985-08)



Battery cover
(A09-0170-08)

Model: RC-R0503
Infrared ray system

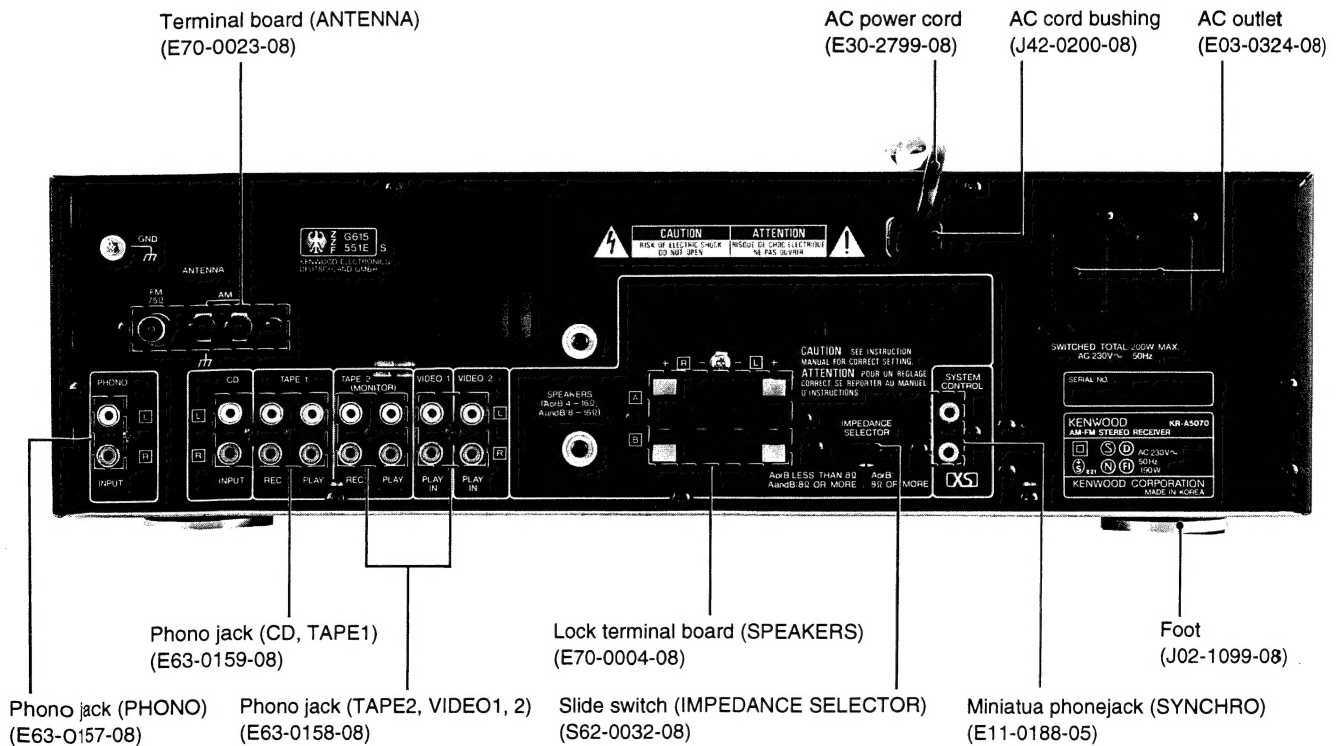
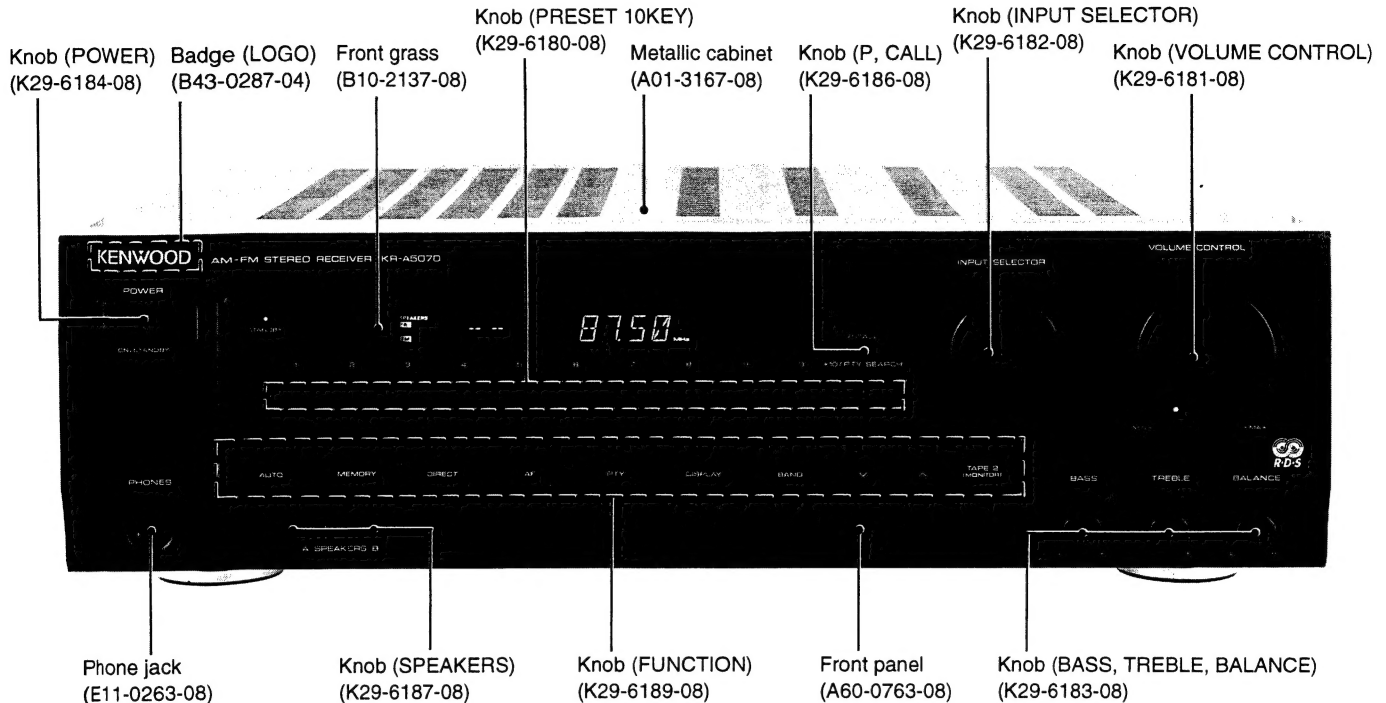
INSTRUCTION MANUAL

	Parts No.	Destination
ENGLISH	B60-2114-08	T, E
FRE/DUC/ITA/SPA	B60-2115-08	E
GERMANY	B60-2116-08	E, G

KR-A4070/A5070 [E, T, G]

EXTERNAL VIEW : KR-A5070

PHOTO is KR-A5070 (E, G type)



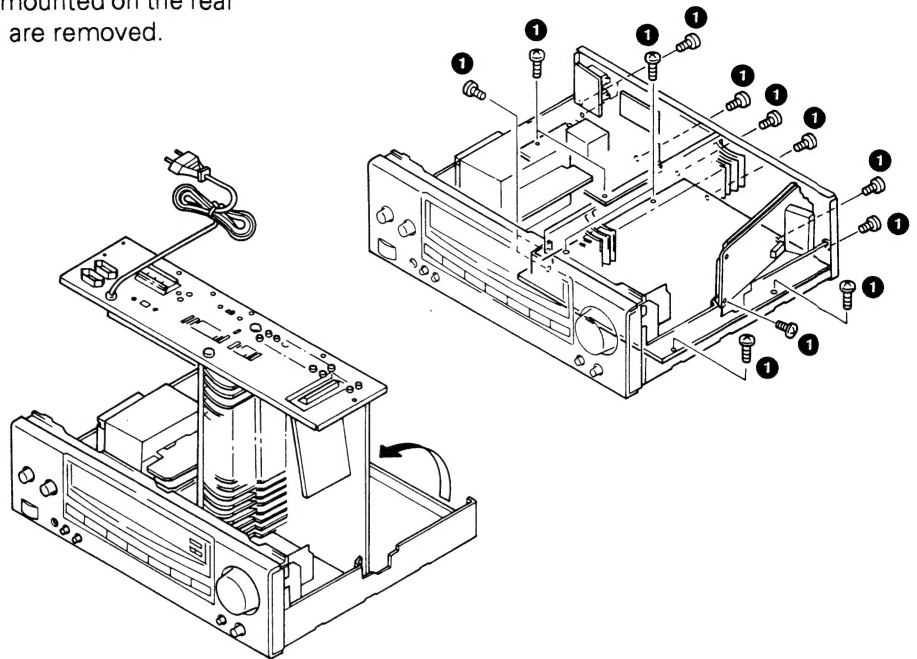
* Refer to parts list on page 26.

KR-A4070/A5070 [E, T, G]

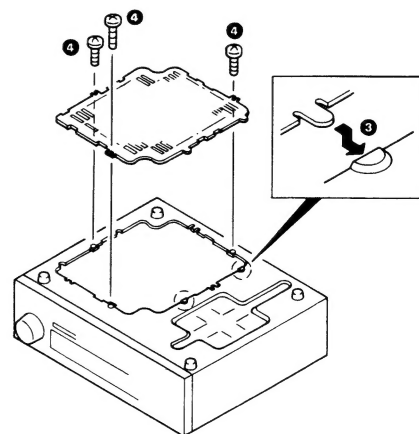
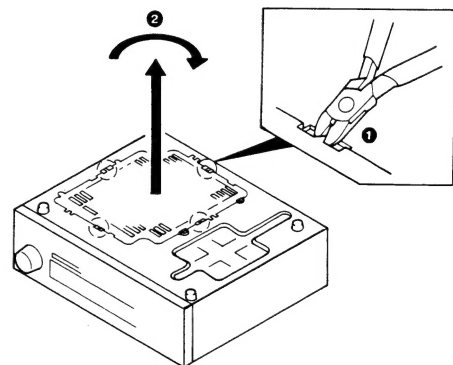
DISASSEMBLY FOR REPAIR

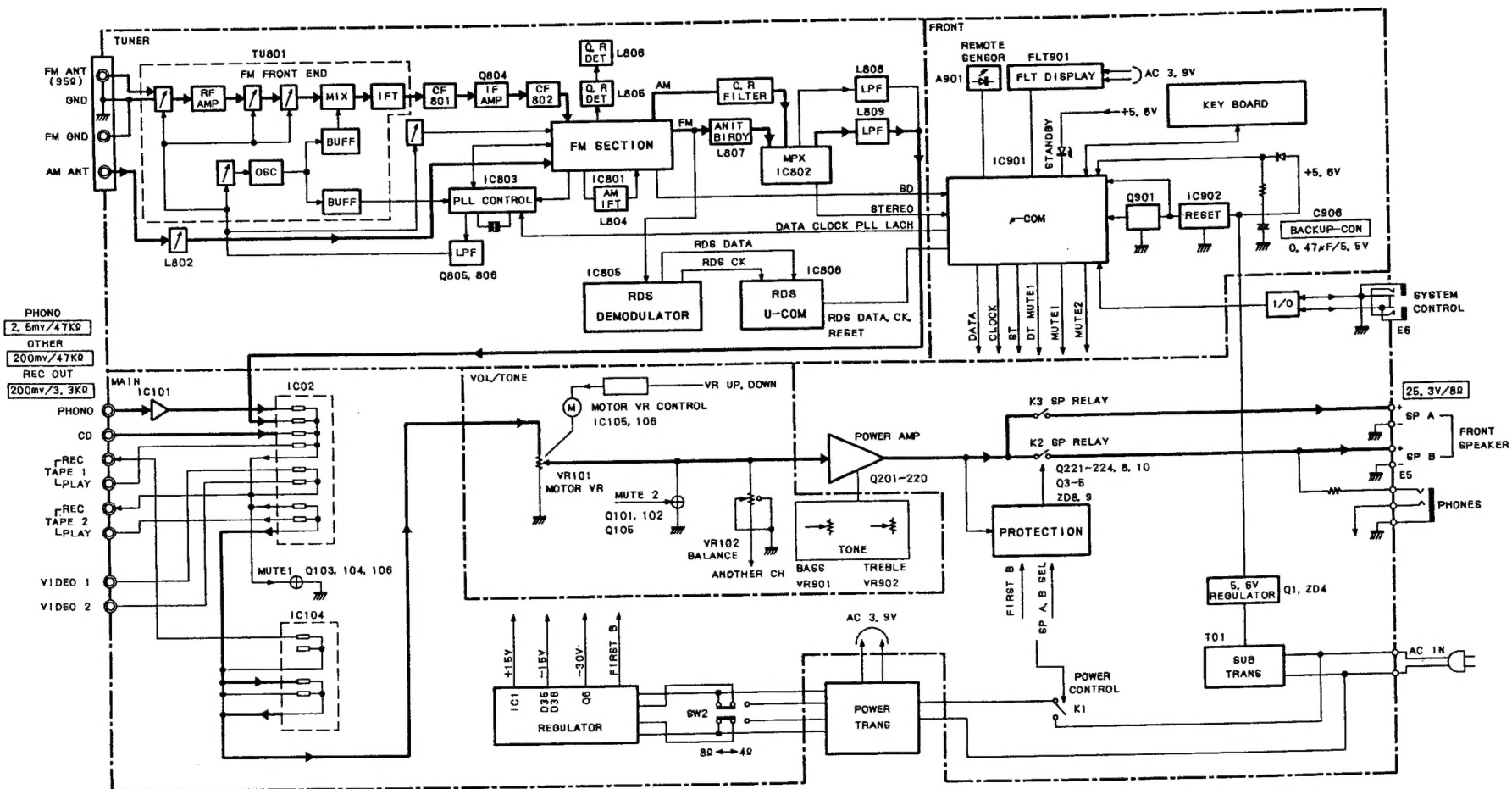
[Illustrations are reference materials.]

1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (1) are removed.



2. Cut the 4 places with a pair of nippers (1), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (2).
5. Insert the lids in the 2 places of the chassis (3), and mount them with the 3 screws (4).





BLOCK DIAGRAM

KR-A4070/A5070 [E, T, G]

KR-A4070/A5070 [E, T, G]

CIRCUIT DESCRIPTION

1. Function description

Features

1-1. AMP

- Seven position selector :
CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :
CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :
TAPE1, TAPE2
- LINE STRAIGHT

- Speaker A/B change-over
- TAPE2 monitor

1-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

2. Conditions according to the destination and model

2-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround
KR-A4070/A5070 (E, T only)	1	X	No surround

X : Don't care

2-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	
K2	0	0	1	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	
E	0	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	
E	1	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	With RDS
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	

2-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	—	D910	—	D909	—

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only
0 : AM NARROW
1 : AM WIDE
- Diode SW 2→ Channel base
(Products bound for M : Change-over with switch)
0 : FM 100kHz/step, AM 10kHz/step
1 : FM 50kHz/step, AM 9kHz/step
- Diode SW 3→With/Without RDS/E, T type only
0 : Without RDS
1 : With RDS
- Diode SW 4→Surround mode
0 : Dolby function & DSP function
1 : Dolby function only
- Diode SW 5→With/Without surround
0 : With surround
1 : Without surround

CIRCUIT DESCRIPTION

3. Initial state

① POWER OFF

② AMP system

- Audio selector TUNER
- Video system selector VIDEO 1
- Speaker A ON
- Speaker B OFF
- TAPE 2 monitor OFF
- LINE STARIGHT OFF

③ TUNER system

- Band FM
- Frequency Lower limit of FM (87.5MHz)
- TUNING mode AUTO TUNING (AUTO STEREO)
- P.CH indication - -ch

④ Test frequency

	K1 type	K2 type	E type
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

Initial setting Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

KR-A4070/A5070 [E, T, G]

CIRCUIT DESCRIPTION

4. Main Unit Test Mode

Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

Cancellation method

Turn the AC power OFF.

Contents

① Start of the main unit test mode

The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.
The "All indications lit up" states is cancelled by pushing any key of the main unit.
The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)

The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

③ Mute signal output (AMP)

No control of selector MUTE (MUTE1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

- a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
- b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
- c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

- Processing related to the AMP : None
- Processing related to the TUNER : None

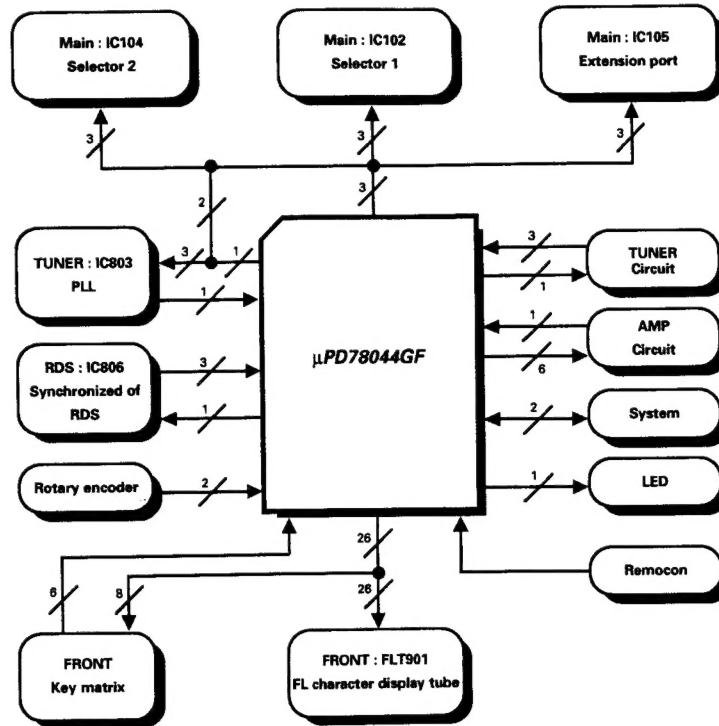
⑥ Cancellation of the main unit test mode

The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

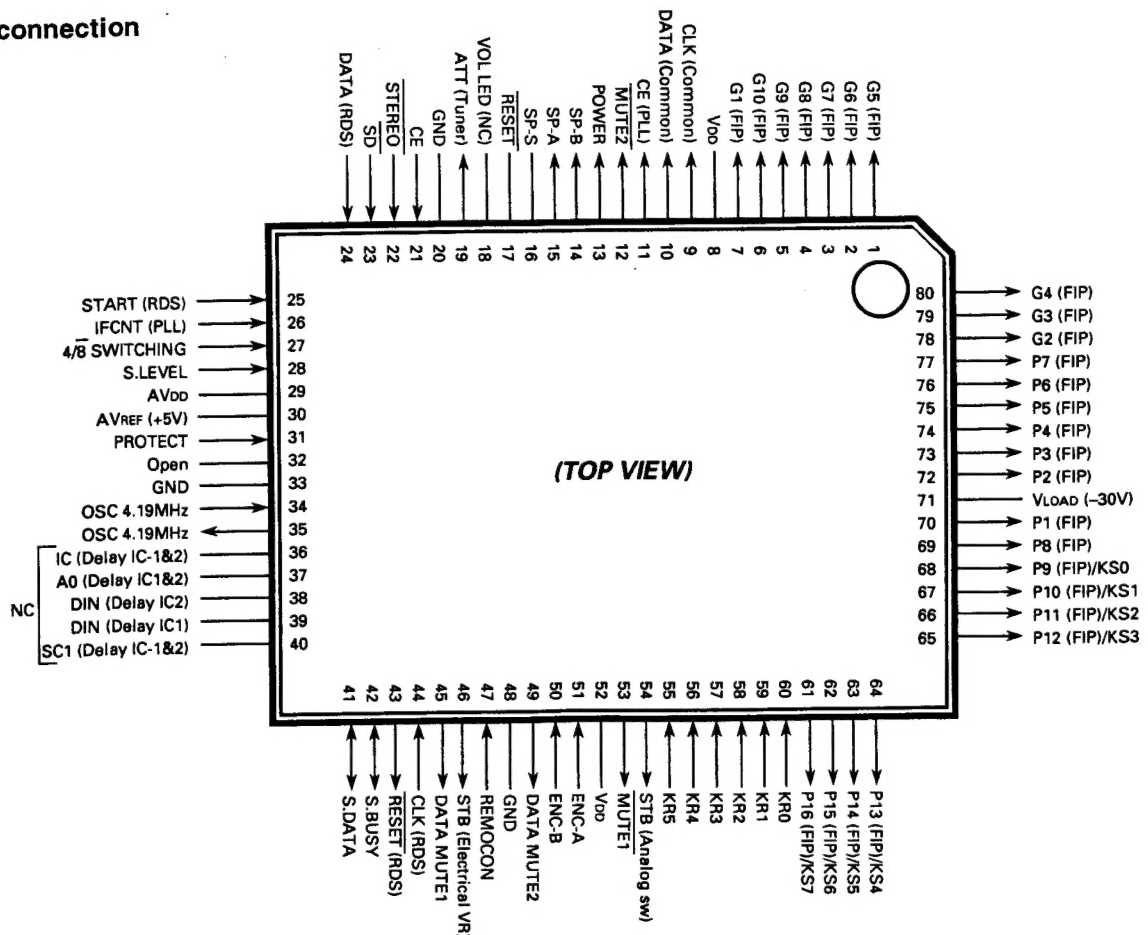
CIRCUIT DESCRIPTION

5. μ -com : μ PD78044GF-021 (Front PCB : IC901)

5-1. μ -com periphery block diagram



5-2. Pin connection



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CIRCUIT DESCRIPTION

5-3. Pin function

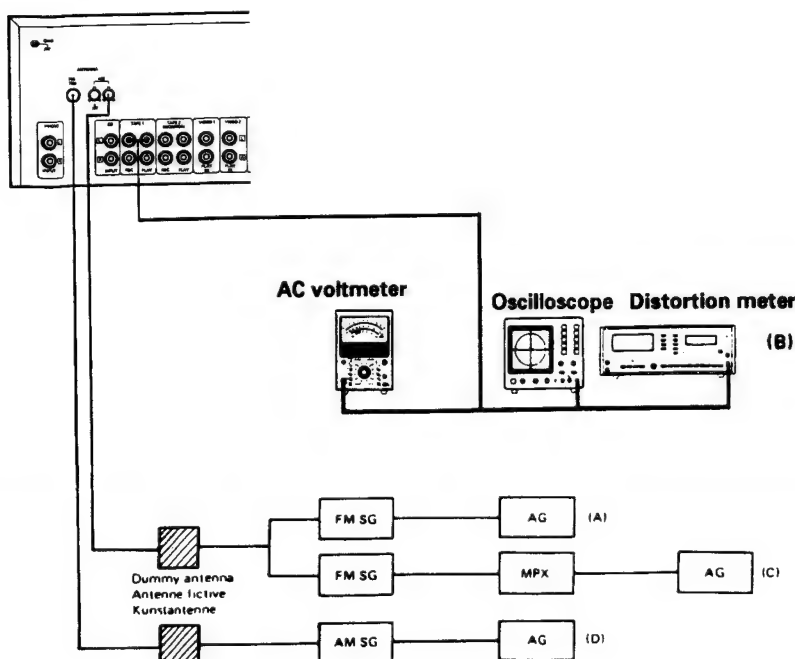
No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	V _{DD}	-	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	MUTE ₂	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	-	Not used (open).
17	RESET	I	μ-com reset.
18	VOL LED	-	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	-	A/D power supply.
21	CE	I	μ-com CE.
22	STEREO	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	SD	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/8 SWITCHING	I	Speaker impedance switching. ("H" : 4Ω, "L" : 8Ω)
28	S.LEVEL	I	Signal level (A/D).
29	AV _{DD}	-	A/D power supply.
30	AVREF	-	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	-	Open.
33	V _{SS}	-	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	I C (DELAY IC-1 & 2)	-	Not used.
37	A0 (DELAY IC-1 & 2)	-	Not used.
38	DIN (DELAY IC-1)	-	Not used.
39	DIN (DELAY IC-2)	-	Not used.
40	SC1 (DELAY IC-1 & 2)	-	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electrical VOL)	-	Not used.
47	REMOCON	I	Remote controller input.
48	GND	-	
49	DT MUTE2	-	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	V _{DD}	-	Power supply.
53	MUTE ₁	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (V _{LOAD})	-	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

KR-A4070/A5070 [E, T, G]

ADJUSTMENT

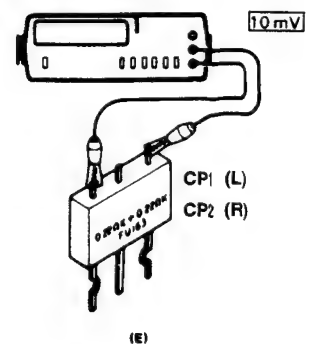
AM section : If alignment point is "—", confirm the value. If not, replace the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ± 40 kHz dev. 60dB μ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ± 40 kHz dev. 60dB μ (ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	Minimum distortion. (L or R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ± 40 kHz dev. 60dB μ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ± 40 kHz dev. Selector : L or R Pilot : ± 6.0 kHz dev. 60dB μ (ANT. input)	(B)	98.0MHz	IFT (Front end pack)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, ± 40 kHz dev. Selector : L or R Pilot : ± 6.0 kHz dev. 60dB μ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum cross talk.	
6	TUNING LEVEL	(A) 98.0MHz 0 dev. 17dB μ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR802 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION		SELECTOR : AM					
(1)	TUNING LEVEL	(D) 999MHz 26dB μ (ANT. input)	(B)	—	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	Connect a DC voltmeter Across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	



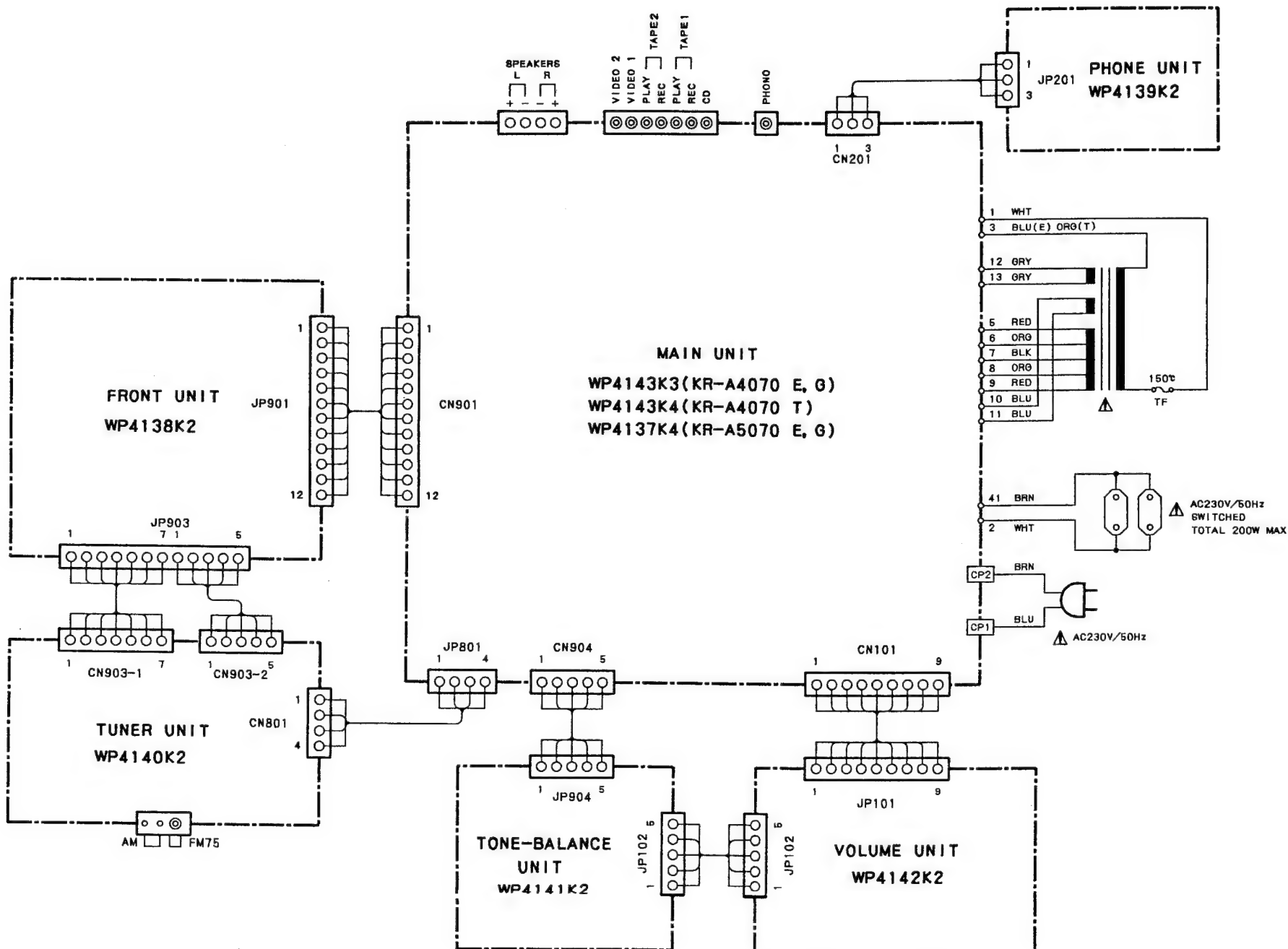
System connections

(e) DC voltmeter

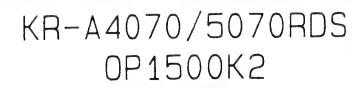


KR-A4070/A5070 [E, T, G]

WIRING DIAGRAM

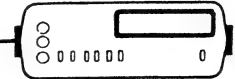


ANTENNA
FM75Ω

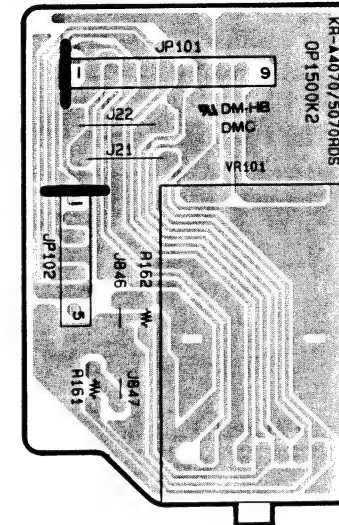


DM-HB
DMC

(a) Discriminator :
0V



DC Voltmeter
MOTER
VOLUME UNIT
WP4142K2



VOLUME CONTROL

Diagram of the DM-HB DMC board. Components labeled include JP201, KR-A4070/5070RDS, 0P1500K2, R256, and PHONE. The board is identified as DM-HB DMC.

PHONES

BALANCE
R L

TREBLE
+ -

BASS
+ -

QP1546K2

~~KR A4070/5070 RD9~~

↓
FRONT

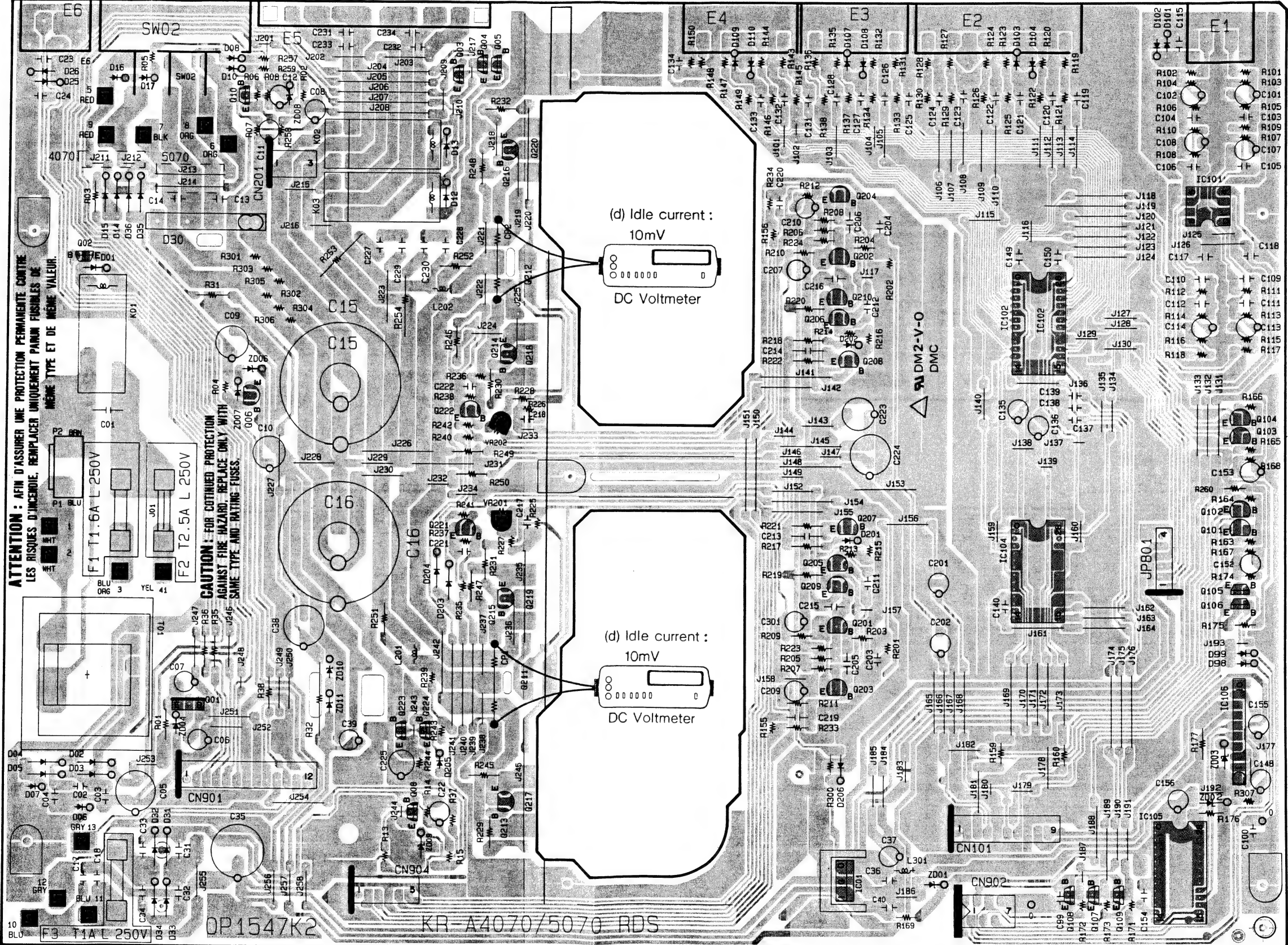
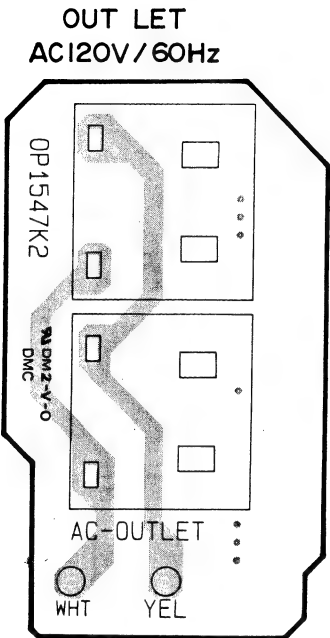
PC BOARD (Component side view) : KR-A4070/A5070

IMPEDANCE SELECTOR

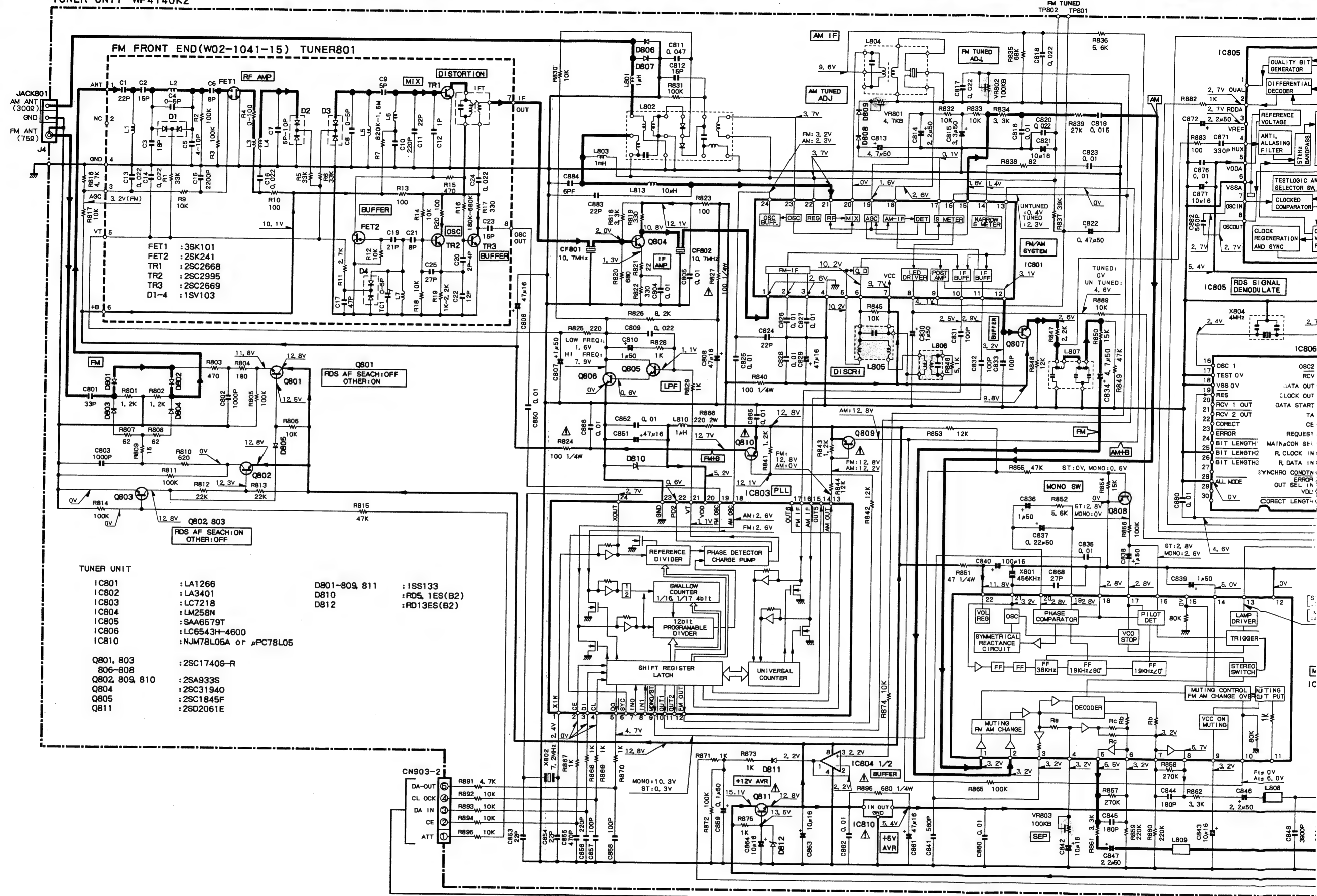
A or B :
8Ω OR MORE
A or B : LESS THAN 8Ω
A and B : ANY SPEAKERS
SPEAKERS (A or B : 4-16Ω, A and B : 8-16Ω) A
+ L - - R + B

VIDEO 2 VIDEO 1 TAPE 2
L PLAY PLAY (MONITOR) TAPE 1 CD L PHONO L
R IN IN PLAY REC PLAY REC INPUT R INPUT R

MAIN UNIT
WP4143K3 (KR-A4070 E, G)
WP4143K4 (KR-A4070 T)
WP4137K4 (KR-A5070 E, G)



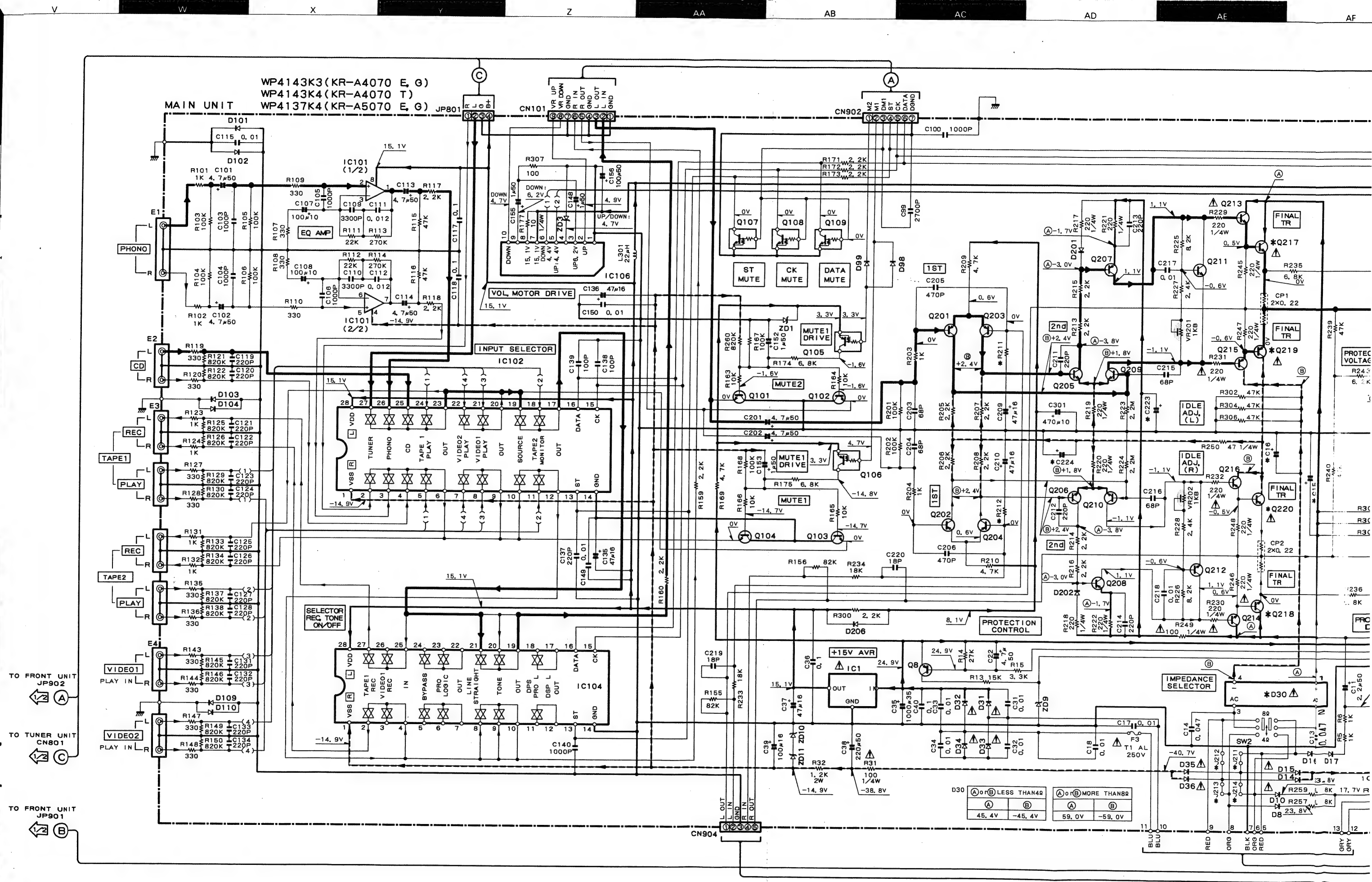
TUNER UNIT WP4140K2

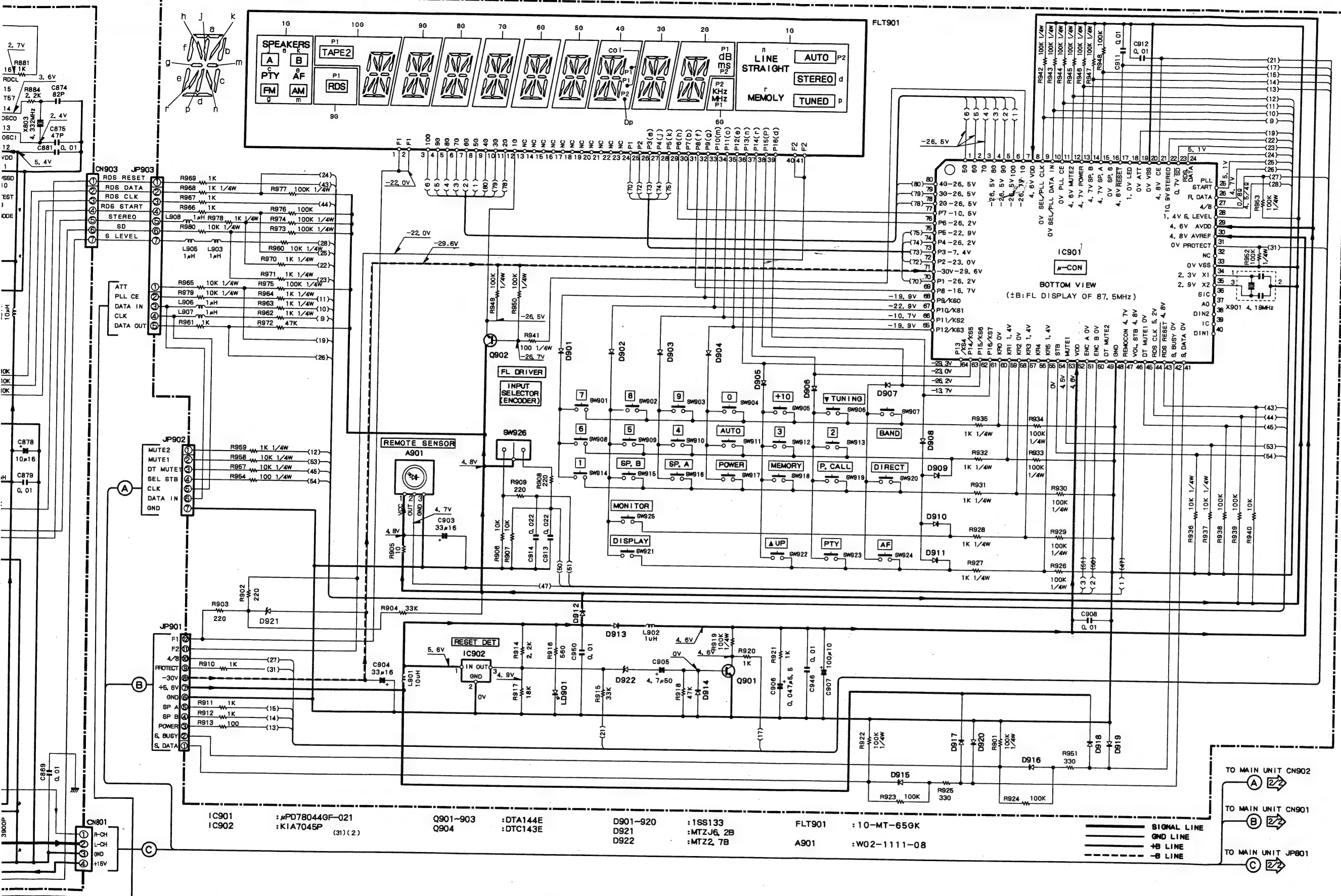


- | | | | |
|----------------|-----------------------------|---------------|---------------|
| IC801 | :LA1266 | D801-809, 811 | :1SS133 |
| IC802 | :LA3401 | D810 | :RDS, 1ES(B2) |
| IC803 | :LC7218 | D812 | :RD13ES(B2) |
| IC804 | :LM258N | | |
| IC805 | :SAA6579T | | |
| IC806 | :LC6543H-4600 | | |
| IC810 | :NUM78L05A or μ PC78L05 | | |
| Q801, 803 | :2SC1740S-R | | |
| Q806-808 | :2SA933S | | |
| Q802, 809, 810 | :2SC3194D | | |
| Q804 | :2SC3194D | | |
| Q805 | :2SC1845F | | |
| Q811 | :2SD2061E | | |

DC voltages are as measured with high imped
Values may vary slightly due to variations between
components or/and units.



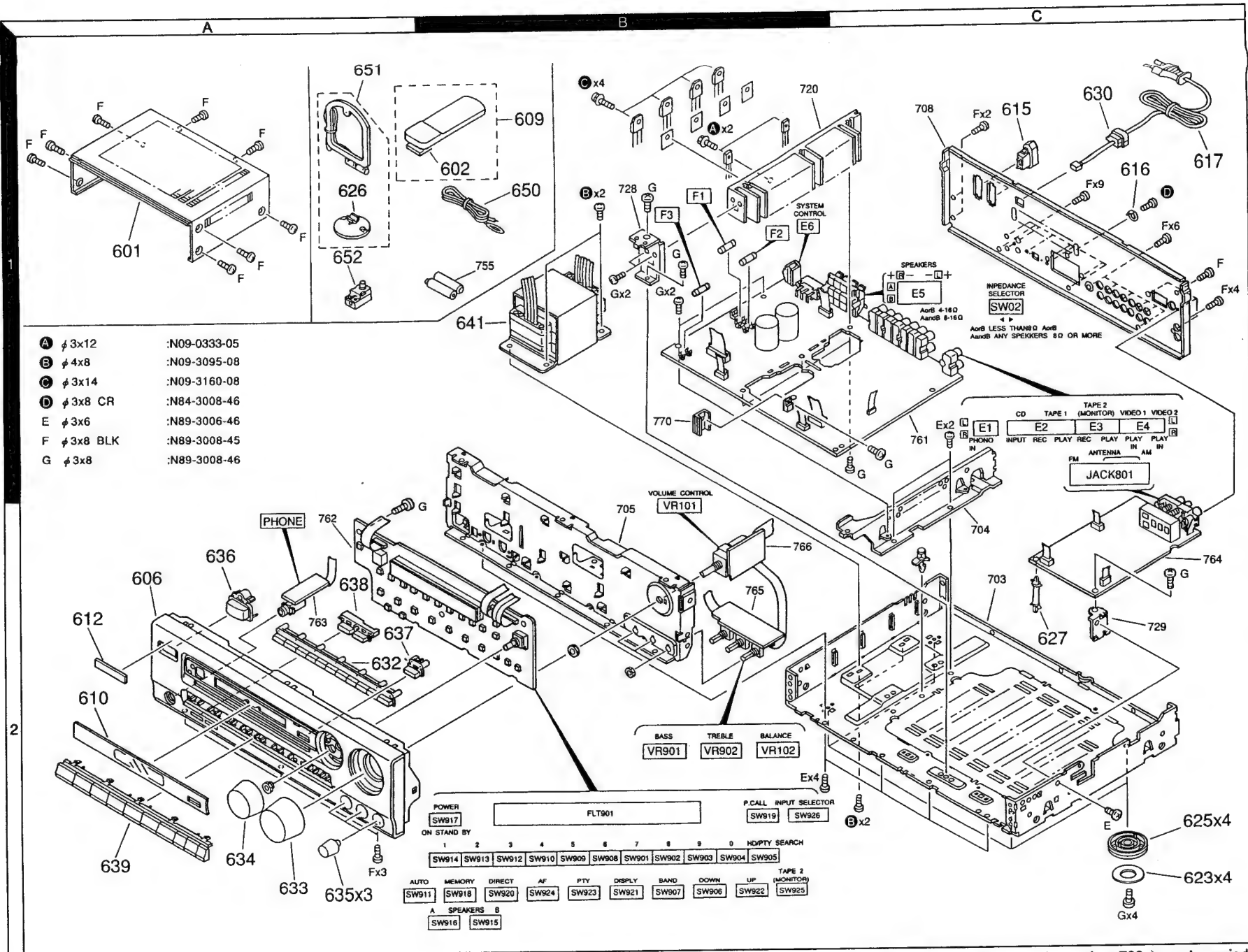






EXPLODED VIEW (UNIT)

KR-A4070/A5070 [E, T, G]



* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KR-A4070						
601	1A		A01-3167-08	METALIC CABINET		
602	1B		A09-0170-08	BATTERY COVER		
606	2A	*	A60-0764-08	FRONT PANEL	T	
606	2A	*	A60-0765-08	FRONT PANEL	EG	
609	1B	*	A70-0985-08	REMOTE CONTROL ASSY		
610	2A	*	B10-2137-08	FRONT GLASS		
612	2A	*	B43-0287-04	KENWOOD BADGE	EG	
-		*	B46-0122-23	WARRANTY CARD	E	
-		*	B60-2114-08	INSTRUCTION MANUAL (ENGLISH)	TE	
-		*	B60-2115-08	INSTRUCTION MANUAL (F/D/I/S)	E	
-		*	B60-2116-08	INSTRUCTION MANUAL (GERMANY)	EG	
615	1C		E03-0085-05	AC OUTLET	T	
615	1C		E03-0324-08	AC OUTLET	EG	
616	1C		E21-0031-08	GND TERMINAL	E	
617	1C	*	E30-2721-05	AC POWER CORD ASSY	T	
617	1C	*	E30-2799-08	AC POWER CORD ASSY	EG	
623	2C		G13-0513-08	CUSHION FOOT		
-		*	H10-7076-08	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (ACCESSORY)		
-		*	H25-0232-04	PROTECTION BAG (MANUAL)		
-		*	H25-1544-08	PROTECTION BAG (UNIT)		
-		*	H50-1508-08	ITEM CARTON CASE	T	
-		*	H50-1510-08	ITEM CARTON CASE	EG	
625	2C		J02-1099-08	FOOT		
626	1A	*	J19-2815-04	LOOP ANTENNA HOLDER		
627	2C		J19-3631-08	PCB HOLDER		
630	1C		J42-0200-08	AC CORD BUSHING		
632	2A	*	K29-6180-08	KNOB PRESET(10KEY)		
633	2A	*	K29-6181-08	KNOB VOLUME CONTROL		
634	2A	*	K29-6182-08	KNOB INPUT SELECTOR		
635	2A	*	K29-6183-08	KNOB BASS, TREBLE, BALANCE		
636	2A	*	K29-6184-08	KNOB POWER		
637	2A	*	K29-6186-08	KNOB P.CALL		
638	2A	*	K29-6187-08	KNOB SPEAKERS		
639	2A	*	K29-6189-08	KNOB FUNCTION		
641	1B		L07-1801-08	POWER TRANSFORMER		
B			N09-3095-08	TAPTITE SCREW (M4X8)		
C			N09-3160-08	TAPTITE SCREW (M3X14)		
650	1B		T90-0176-05	T TYPE ANTENNA		
651	1A	*	T90-0804-08	LOOP ANTENNA		
652	1A	*	T90-0805-08	ANTENNA ADAPTER		
KR-A5070						
601	1A		A01-3167-08	METALIC CABINET		
602	1B		A09-0170-08	BATTERY COVER		
606	2A	*	A60-0763-08	FRONT PANEL		
609	1B	*	A70-0985-08	REMOTE CONTROL UNIT		
610	2A	*	B10-2137-08	FRONT GLASS		
612	2A	*	B43-0287-04	KENWOOD BADGE		
-		*	B46-0122-23	WARRANTY CARD		

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* New Parts

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
-		*	B60-2114-08	INSTRUCTION MANUAL (ENGLISH)	E	
-		*	B60-2115-08	INSTRUCTION MANUAL (F/D/I/S)	E	
-		*	B60-2116-08	INSTRUCTION MANUAL (GERMANY)	EG	
615	1C	*	E03-0324-08	AC OUTLET		
616	1C	*	E21-0031-08	GND TERMINAL		
617	1C	*	E30-2799-08	AC POWER CORD		
623	2C	*	G13-0513-08	CUSHION FOOT		
-		*	H10-7076-08	POLYSTYRENE FOAMED FIXTURE		
-		*	H25-0232-04	PROTECTION BAG (ACCESSORY)		
-		*	H25-0232-04	PROTECTION BAG (MANUAL)		
-		*	H25-1544-08	PROTECTION BAG (UNIT)		
-		*	H50-1513-08	ITEM CARTON CASE		
625	2C		J02-1099-08	FOOT		
626	1A		J19-2815-04	ANTENNA HOLDER		
627	2C		J19-3631-08	UNIT HOLDER		
630	1C		J42-0200-08	AC CORD BUSHING		
632	2A	*	K29-6180-08	KNOB PRESET(10KEY)		
633	2A	*	K29-6181-08	KNOB VOLUME CONTROL		
634	2A	*	K29-6182-08	KNOB INPUT SELECTOR		
635	2A	*	K29-6183-08	KNOB BASS, TREBLE, BALANCE		
636	2A	*	K29-6184-08	KNOB POWER		
637	2A	*	K29-6186-08	KNOB P.CALL		
638	2A	*	K29-6187-08	KNOB SPEAKERS		
639	2A	*	K29-6189-08	KNOB FUNCTION		
641	1B		L07-0999-08	POWER TRANSFORMER		
B			N09-3095-08	TAPTITE SCREW (M4X8)		
C			N09-3160-08	TAPTITE SCREW (M3X14)		
650	1B		T90-0176-05	T TYPE ANTENNA		
651	1A	*	T90-0804-08	LOOP ANTENNA		
652	1A	*	T90-0805-08	ANTENNA ADAPTER		
ELECTRIC PARTS						
LD901			B30-0413-05	LED(LTL4213(RED))		
C01			C91-1441-08	CERAMIC 4700PF 250WV		
C02 -04			CK45FF1H103Z	CERAMIC 0.010UF Z		
C05			CE04KW1E471M	ELECTRO 470UF 25WV		
C06			CE04KW1H100M	ELECTRO 10UF 50WV		
C07			CE04KW1A101M	ELECTRO 100UF 10WV		
C08			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C09			CE04KW1H101M	ELECTRO 100UF 50WV		
C10			CE04KW1V101M	ELECTRO 100UF 35WV		
C11			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C12			CE04KW1C220M	ELECTRO 22UF 16WV		
C13 .14			CK45FF1H473Z	CERAMIC 0.047UF Z		
C15 .16			C90-3561-05	ELECTRO 4700UF 50WV		
C16 .16			C90-3565-08	ELECTRO 6800UF 63WV		
C17 .18			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C23			CK45FF1H223Z	CERAMIC 0.022UF Z		
C24			CC45FSL1H221J	CERAMIC 220PF J		
C31 -34			CK45FF1H103Z	CERAMIC 0.010UF Z		
C35			CE04KW1V102M	ELECTRO 1000UF 35WV		

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4 : KR-A4070

5 : KR-A5070

KR-A4070/A5070 [E, T, G]

PARTS LIST

✕ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C36 C37 C38 C39 C40		*	C91-1528-08 CE04KW1C470M CE04KW1H221M CE04KW1C101M C91-1528-08	CERAMIC 0.1UF Z ELECTRØ 47UF 16WV ELECTRØ 220UF 50WV ELECTRØ 100UF 16WV CERAMIC 0.1UF Z		
C99 C100 C101, 102 C103-106 C107, 108			CK45FB1H272K CK45FB1H102K CE04KW1H4R7M CK45FB1H102K CE04KW1A101M	CERAMIC 2700PF K CERAMIC 1000PF K ELECTRØ 4.7UF 50WV CERAMIC 1000PF K ELECTRØ 100UF 10WV		
C109, 110 C111, 112 C113, 114 C115 C117, 118		*	CQ93FMG1H332J CQ93FMG1H123J CE04KW1H4R7M CK45FF1H103Z C91-1528-08	MYLAR 3300PF J MYLAR 0.012UF J ELECTRØ 4.7UF 50WV CERAMIC 0.010UF Z CERAMIC 0.1UF Z		
C119-128 C131-134 C135, 136 C137 C138, 139			CC45FSL1H221J CC45CH1H221J CE04KW1C470M CC45FSL1H221J CC45FSL1H101J	CERAMIC 220PF J CERAMIC 220PF J ELECTRØ 47UF 16WV CERAMIC 220PF J CERAMIC 100PF J		
C140 C148 C149, 150 C152, 153 C154			CK45FB1H102K CE04KW1H010M CK45FF1H103Z CE04KW1H010M CK45FB1H102K	CERAMIC 1000PF K ELECTRØ 1.0UF 50WV CERAMIC 0.010UF Z ELECTRØ 1.0UF 50WV CERAMIC 1000PF K		
C155 C156 C201, 202 C203, 204 C205, 206			CE04KW1H010M CE04KW1C101M CE04KW1H4R7M CC45FSL1H680J CK45FB1H471K	ELECTRØ 1.0UF 50WV ELECTRØ 100UF 16WV ELECTRØ 4.7UF 50WV CERAMIC 68PF J CERAMIC 470PF K		
C207 C209, 210 C211-214 C215, 216 C217, 218			CE04KW1A471M CE04KW1A101M CC45FSL1H221J CC45FSL2H680J CK45FF1H103Z	ELECTRØ 470UF 10WV ELECTRØ 100UF 10WV CERAMIC 220PF J CERAMIC 68PF J CERAMIC 0.010UF Z		
C219, 220 C221, 222 C223 C223 C224			CC45FCH1H180J CC45FSL1H221J CE04KW1H470M CE04KW1J470M CE04KW1H101M	CERAMIC 18PF J CERAMIC 220PF J ELECTRØ 47UF 50WV ELECTRØ 47UF 63WV ELECTRØ 100UF 50WV	4 5 4	
C224 C225 C227-230 C231-234 C235, 236			CE04KW1J101M CE04KW0J221M CQ93FMG1H683J CK45FF1H223Z CK45FF1H103Z	ELECTRØ 100UF 63WV ELECTRØ 220UF 6.3WV MYLAR 0.068UF J CERAMIC 0.022UF Z CERAMIC 0.010UF Z	5	
C301 C801 C802, 803 C804, 805 C806			CE04KW1A471M CC45FCH1H330J CK45FB1H102K CK45FF1H103Z CE04KW1C470M	ELECTRØ 470UF 10WV CERAMIC 33PF J CERAMIC 1000PF K CERAMIC 0.010UF Z ELECTRØ 47UF 16WV		
C807 C808 C809 C810 C811			CE04KW1H010M CE04KW1C470M CQ93FMG1H223J CE04KW1H010M CK45FF1H473Z	ELECTRØ 1.0UF 50WV ELECTRØ 47UF 16WV MYLAR 0.022UF J ELECTRØ 1.0UF 50WV CERAMIC 0.047UF Z		

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✕ New Parts

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No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C812 C813 C814 C815 C816			CC45FCH1H150J CE04KW1H4R7M CE04KW1H2R2M CE04KW1H3R3M CK45FF1H103Z	CERAMIC 15PF J ELECTRØ 4.7UF 50WV ELECTRØ 2.2UF 50WV ELECTRØ 3.3UF 50WV CERAMIC 0.010UF Z		
C817, 818 C819 C820 C821 C822			CK45FF1H223Z CQ93FMG1H153J CK45FF1H223Z CE04KW1C100M CE04KW1HR47M	CERAMIC 0.022UF Z MYLAR 0.015UF J CERAMIC 0.022UF Z ELECTRØ 10UF 16WV ELECTRØ 0.47UF 50WV		
C823 C824 C825-828 C829 C830			CK45FF1H103Z CC45FCH1H220J CK45FF1H103Z CE04KW1C470M CE04KW1H010M	CERAMIC 0.010UF Z CERAMIC 22PF J CERAMIC 0.010UF Z ELECTRØ 47UF 16WV ELECTRØ 1.0UF 50WV		
C831-833 C834 C835 C836 C837			CC45FSL1H101J CE04KW1H4R7M CQ93FMG1H103J CE04KW1H010M CE04KW1HR22M	CERAMIC 100PF J ELECTRØ 4.7UF 50WV MYLAR 0.010UF J ELECTRØ 1.0UF 50WV ELECTRØ 0.22UF 50WV		
C838, 839 C840 C841 C842, 843 C844, 845			CE04KW1H010M CE04KW1C101M CK45FB1H561J CE04KW1C100M CC45FSL1H181J	ELECTRØ 1.0UF 50WV ELECTRØ 100UF 16WV CERAMIC 560PF J ELECTRØ 10UF 16WV CERAMIC 180PF J		
C846, 847 C848, 849 C850 C851 C852			CE04KW1H2R2M CQ93FMG1H392J CK45FF1H103Z CE04KW1C470M CK45FF1H103Z	ELECTRØ 2.2UF 50WV MYLAR 3900PF J CERAMIC 0.010UF Z ELECTRØ 47UF 16WV CERAMIC 0.010UF Z		
C853, 854 C855 C856 C857, 858 C859			CC45FCH1H220J CC45FB1H471K CC45FSL1H221J CC45FSL1H101J CE04KW1HOR1M	CERAMIC 22PF J CERAMIC 470PF K CERAMIC 220PF J CERAMIC 100PF J ELECTRØ 0.1UF 50WV		
C860 C861 C862 C863, 864 C865, 866			CK45FF1H103Z CE04KW1C470M CK45FF1H103Z CE04KW1C100M CK45FF1H103Z	CERAMIC 0.010UF Z ELECTRØ 47UF 16WV CERAMIC 0.010UF Z ELECTRØ 10UF 16WV CERAMIC 0.010UF Z		
C868 C869 C871 C872 C873			CC45FSL1H270J CK45FF1H103Z CC45FSL1H331J CE04KW1H2R2M CK45F1H103M	CERAMIC 27PF J CERAMIC 0.010UF Z CERAMIC 330PF J ELECTRØ 2.2UF 50WV CERAMIC 0.010UF M		
C874 C875 C876 C877, 878 C879-881			CC45FSL1H820J CC45FSL1H470J CK45FF1H103Z CE04KW1C100M CK45FF1H103Z	CERAMIC 82PF J CERAMIC 47PF J CERAMIC 0.010UF Z ELECTRØ 10UF 16WV CERAMIC 0.010UF Z		
C882 C883 C884 C903, 904 C905		*	CK45FB1H561J CC45FCH1H220J CC45FCH1H060D CE04KW1C330M CE04KW1H4R7M	CERAMIC 560PF J CERAMIC 22PF J CERAMIC 6.0PF D ELECTRØ 33UF 16WV ELECTRØ 4.7UF 50WV		

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PARTS LIST

KR-A4070/A5070 [E, T, G]

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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
C906 C907 C908 C911, 912 C913, 914			C90-1827-05 CE04KW1A101M CK45FF1H103Z CK45FF1H103Z CK45FF1H223Z	ELECTR0 0.047F 5.5WV ELECTR0 100UF 10WV CERAMIC 0.010UF Z CERAMIC 0.010UF Z CERAMIC 0.022UF Z		
C921, 922 C923, 924 C925, 926 C927, 928 C929, 930			CE04KW1H4R7M CQ93FMG1H153J CQ93FMG1H683J CK45FB1H822Z CC45FCH1H220J	ELECTR0 4.7UF 50WV MYLAR 0.015UF J MYLAR 0.068UF J CERAMIC 8200PF Z CERAMIC 22PF J		
C931, 932 C933, 934 C946 C950			CC45FSL1H101J CQ93FMG1H333J CK45FF1H103Z CK45FF1H103Z	CERAMIC 100PF J MYLAR 0.033UF J CERAMIC 0.010UF Z CERAMIC 0.010UF Z		
E1 E2 E3, 4 E5 E6	1C 1C 1C 1C 1B		E63-0157-08 E63-0159-08 E63-0158-08 E70-0004-08 E11-0188-05	PHONE JACK PHONE PHONE JACK CD, TAPE1 PHONE JACK TAPE2, VIDEO1, 2 LOCK TERMINAL BOARD SPEAKERS MINIATUA PHONE JACK SYNCHRO		
JACK801 PHONE	1C 2A		E70-0023-08 E11-0263-08	TERMINAL BOARD ANTENNA PHONE JACK HEAD PHONES		
F1 F1 F2 F3	1B 1B 1B 1B		F05-1623-05 F06-2021-05 F05-2525-05 F06-1022-05	FUSE SEMCO T1.6A/250V FUSE SEMCO T2A/250V FUSE SEMCO T2.5A/250V FUSE SEMCO T1A/250V	G	4 5
-			J13-0084-08	FUSE CLIP		
CF801, 802 L201, 202 L301 L801 L802			L72-0575-08 L39-1303-08 L33-0379-08 L40-1091-17 L39-1322-08	CERAMIC FILTER 10.7MHz INDUCTOR 0.15UH INDUCTOR 22UH SMALL FIXED INDUCTOR 1UH COIL		
L803 L804 L805 L806 L807			L33-0381-08 L30-0904-08 L30-0905-08 L30-0906-08 L39-1323-08	SMALL FIXED INDUCTOR 1mH IFT AM IFT FM IFT FM COIL		
L808, 809 L810 L811-813 L901 L902, 903			L35-0070-08 L40-1091-17 L40-1001-17 L40-1001-17 L40-1091-17	COIL SMALL FIXED INDUCTOR 1UH SMALL FIXED INDUCTOR 10UH SMALL FIXED INDUCTOR 10UH SMALL FIXED INDUCTOR 1UH		
L905-908 T01 X801 X802 X803		*	L40-1091-17 L07-1987-08 L78-0616-08 L77-2126-08 L77-2127-08	SMALL FIXED INDUCTOR 1UH TRANSFORMER RESONATOR 456kHz CRYSTAL 7.200MHz CRYSTAL 4.332MHz	T	4
X804 X901			L78-0617-08 L78-0209-05	RESONATOR 4.00MHz RESONATOR 4.19MHz		
G	2K		N89-3010-46	BINDING HEAD TAPTITE SCREW		
CP1, 2 R03 R31			R90-0947-08 RD14GB2E101J RD14GB2E101J	MULTI-COMP 0.22X2 K 3W FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W		

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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R32 R177 R217-222 R229-232 R245-248			RS14KB3D122J RD14GB2E100J RD14GB2E221J RD14GB2E221J RD14GB2E221J	FL-PROOF RS 1.2K J 2W FL-PROOF RD 10 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 220 J 1/4W		
R249 R250 R253, 254 R255, 256 R824			RD14GB2E101J RD14GB2E470J RS14KB3A100J RS14KB3A561J RD14GB2E101J	FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RS 10 J 1W FL-PROOF RS 560 J 1W FL-PROOF RD 100 J 1/4W		
R827 R840 R851 R866 VR101			RD14GB2E101J RD14GB2E101J RD14GB2E470J RS14KB3D221J R39-0001-08	FL-PROOF RD 100 J 1/4W FL-PROOF RD 100 J 1/4W FL-PROOF RD 47 J 1/4W FL-PROOF RS 220 J 2W POTENTIOMETER 100KBX2 VOLUME		
VR102 VR201, 202 VR801 VR802 VR803	2B	*	R31-0053-08 R12-1066-05 R12-1053-05 R32-0012-08 R32-0012-08	POTENTIOMETER BALANCE TRIM POT. 1KB IDLE ADJ TRIM POT. 4.7KB AM TUNE LEVEL TRIM POT. 100KB FM TUNE LEVEL TRIM POT. 100KB SEPARATION		5
VR901, 902	2B		R31-0058-08	POTENTIOMETER BASS TREBLE		
K1 K2, 3 SW2 SW901-925 SW926	1C 2B 2B		S76-0034-08 S76-0035-08 S62-0032-08 S70-0030-08 S60-0030-08	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH IMPEDANCE SELECT TACT SWITCH KEY BOARD ROTARY SWITCH INPUT SELECTOR		
D1 D2 -5 D06 -08 D10 D12, 13			1SS133 1N4002A 1SS133 1SS133 1SS133	DIODE DIODE DIODE DIODE DIODE		
D14, 15 D16, 17 D25, 26 D30 D30			1N4002A 1SS133 1SS133 1SS133 DBF40C DBF60C	DIODE DIODE DIODE DIODE DIODE DIODE		4 5
D31 -36 D98, 99 D101-104 D107-110 D201, 202			1N4002A 1SS133 1SS133 1SS133 1SS133	DIODE DIODE DIODE DIODE DIODE		
D203, 204 D205, 206 D801-809 D810 D811			1N4002A 1SS133 1SS133 RD5.1ES(B2) 1SS133	DIODE DIODE DIODE ZENER DIODE DIODE		
D812 D901-920 D921 D922 FLT901			RD13ES(B2) 1SS133 MTZJ6.2B MTZ2.7B 10-MT-65GK	ZENER DIODE DIODE ZENER DIODE ZENER DIODE FLUORESCENT INDICATOR TUBE		
IC01 IC101 IC102	2B	*	MC7815C NJM4558DD NJU7313L	IC(VOLTAGE REGULATOR/+15) IC(OP AMP X2) IC(ANALOG SWITCH) SELECTOR SW		

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KR-A4070/A5070 [E, T, G]

PARTS LIST

※ New Parts

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
IC104		*	NJU7311L	IC(ANALOG SWITCH)ARRAY)		
IC105		*	NJU7312AL	IC(SWITCHING IC)TCH X16)		
IC106			BA6209N	IC(MOTOR DRIVER)		
IC801			LA1266	IC(AM/FM IF)		
IC802			LA3401	IC(FM MPX)		
IC803			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
IC804			LM258N	IC		
IC805			SAA6579T	IC(RDS DEMODULATOR)		
IC806			LC6543H-4600	IC(4bit MICROPROCESSOR)		
IC810			NJM78L05A	IC(VOLTAGE REGULATOR/ +5V)		
IC810			UPC78L05	IC(VOLTAGE REGULATOR/ +5V)		
IC901			UPD78044GF-021	IC(8BIT MICROPROCESSOR)		
IC902			PST529C	IC(SYSTEM RESET)		
Q01			2SD882	TRANSISTOR		
Q02 -05			DTC114ES	DIGITAL TRANSISTOR		
Q06			2SA916	TRANSISTOR		
Q08			2SA933S	TRANSISTOR		
Q10			2SA933S	TRANSISTOR		
Q101-104			2SC2878B	TRANSISTOR		
Q105,106			DTA144ES	DIGITAL TRANSISTOR		
Q107-109			DTC114ES	DIGITAL TRANSISTOR		
Q201-204			2SA992F	TRANSISTOR		
Q205,206			2SC1845F	TRANSISTOR		
Q207,208			2SA992F	TRANSISTOR		
Q209,210			2SC1845F	TRANSISTOR		
Q211,212			2SC4137V	TRANSISTOR		
Q213,214		*	2SC2316Y	TRANSISTOR		
Q215,216			2SA916	TRANSISTOR		
Q217,218			2SC4467Y	TRANSISTOR		
Q217,218			2SC4468P	TRANSISTOR		4 5
Q219,220		*	2SA1694Y	TRANSISTOR		4 5
Q219,220			2SA1695	TRANSISTOR		
Q221,222			2SC1845F	TRANSISTOR		
Q223,224			2SC1740S-R	TRANSISTOR		
Q801			2SC1740S-R	TRANSISTOR		
Q802			2SA933S	TRANSISTOR		
Q803			2SC1740S-R	TRANSISTOR		
Q804			2SC31940	TRANSISTOR		
Q805			2SC1845F	TRANSISTOR		
Q806-808			2SC1740S-R	TRANSISTOR		
Q809,810			2SA933S	TRANSISTOR		
Q811			2SD2061E	TRANSISTOR		
Q901,902			2SC1740S-R	TRANSISTOR		
ZD01			MTZJ3.9B	ZENER DIODE		
ZD02,03			MTZJ5.1B	ZENER DIODE		
ZD04			RD6.2ES(B2)	ZENER DIODE		
ZD06,07			MTZJ16A	ZENER DIODE		
ZD08,09			MTZJ5.1B	ZENER DIODE		
ZD10			MTZJ6.8B	ZENER DIODE		
ZD11			MTZJ8.2B	ZENER DIODE		
A901			W02-1111-08	ELECTRIC CIRCUIT MODULE		
TUNER801			W02-1041-15	FM FRONT END		

L: Scandinavia

K: USA

P: Canada

R: Mexico

4: KR-A4070

T: England

E: Europe

G: Germany

5: KR-A5070

Y: AAFES (Europe)

X: Australia

M: Other Areas

△ indicates safety critical components.

PARTS LIST

KR-A4070/A5070 [E, T, G]

KR-A4070/A5070 [E, T, G]

SPECIFICATIONS

KR-A5070

Audio section

Rated power output (DIN)	1,000 Hz	at 8 Ω	100 W + 100 W
		at 4 Ω	90 W + 90 W
Total harmonic distortion (1 kHz, 8 Ω)			0.01% at 50 W
Signal to noise ratio			
PHONO (MM)			56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO			57 dB (DIN, 50 mW output)
Input sensitivity / impedance			
PHONO (MM)			2.5 mV / 47 k Ω
CD, TAPE, VIDEO			200 mV / 47k Ω
Tone controls			
BASS			± 10 dB (at 100 Hz)
TREBLE			± 10 dB (at 10 kHz)

FM Tuner section

Tuning frequency range	87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)	
MONO	1.1 μ V
STEREO	45 μ V
Total harmonic distortion at 1 kHz (DIN)	
MONO	0.15%
STEREO	0.5%
Signal to noise ratio (DIN weighted at 1 kHz)	
MONO	68 dB (65.2 dBf input)
STEREO	61 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz)	53 dB
Stereo separation (DIN)	
1 kHz	40 dB
6.3 kHz	33 dB
Frequency response	30 Hz~15 kHz, + 0.5 dB, - 2.0 dB

AM Tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity	12 μ V / (400 μ V / m)
Total harmonic distortion	0.3 %
Signal to noise ratio (at 30% mod. 1mV input)	50 dB
Selectivity	30 dB

General

Power consumption	190 W
AC outlet	
SWITCHED	2: (total 200 W max)
Dimensions	W:440 mm H:133 mm D:350 mm
Weight (net)	8.3 kg

KR-A4070

Audio section

Rated power output (DIN)	1,000 Hz	at 8 Ω	60 W + 60 W
		at 4 Ω	55 W + 55 W
Total harmonic distortion (1 kHz, 8 Ω)			0.01% at 30 W
Signal to noise ratio			
PHONO (MM)			56 dB (DIN, 50 mW output)
CD, TAPE, VIDEO			57 dB (DIN, 50 mW output)
Input sensitivity / impedance			
PHONO (MM)			2.5 mV / 47 k Ω
CD, TAPE, VIDEO			200 mV / 47k Ω
Tone controls			
BASS			± 10 dB (at 100 Hz)
TREBLE			± 10 dB (at 10 kHz)

FM Tuner section

Tuning frequency range	87.5 MHz~108 MHz
Usable sensitivity (DIN at 75 Ω)	
MONO	1.1 μ V
STEREO	45 μ V
Total harmonic distortion at 1 kHz (DIN)	
MONO	0.15%
STEREO	0.5%
Signal to noise ratio (DIN weighted at 1 kHz)	
MONO	68 dB (65.2 dBf input)
STEREO	61 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz)	53 dB
Stereo separation (DIN)	
1 kHz	40 dB
6.3 kHz	33 dB
Frequency response	30 Hz~15 kHz, + 0.5 dB, - 2.0 dB

AM Tuner section

Tuning frequency range	531 kHz ~ 1,602 kHz
Usable sensitivity	12 μ V / (400 μ V / m)
Total harmonic distortion	0.3 %
Signal to noise ratio (at 30% mod. 1mV input)	50 dB
Selectivity	30 dB

General

Power consumption	120 W
AC outlet	
SWITCHED	2: (total 200 W max)
Dimensions	W:440 mm H:133 mm D:350 mm
Weight (net)	6.7 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan

KENWOOD SERVICE CORPORATION

P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745 U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. BOX 55-2791, Piso 6 Plaza Chase, Cl. 47 y Aquilino de la Guardia, Panama, Republic de Panama

TRIO-KENWOOD U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts. WD1 8EB United Kingdom

KENWOOD ELECTRONICS BENELUX N.V.

Mechelesteeweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129 Milano, Italy

KENWOOD ESPAÑA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37 Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T. Hong Kong

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane # 07-00, KENWOOD Building, Singapore, 1334

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

10 th Floor, Block B, Wisma Semantan, No. 12, Jalan Gelenggang, Bukit Damansara, 50490 Kuala Lumpur, Malaysia

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.